

Abstract

The present invention provides a more safe and highly effective stent having functions such as anti-inflammatory action, antithrombotic action, maintenance of tissue restoration response and maintenance of endothelial regeneration. More specifically, the drug/gene eluting stent has a layer containing a gene encoding a hybrid polypeptide on the surface. The hybrid polypeptide is preferably a bound of fibronectin-derived collagen binding domain (FNCBD) polypeptide and an anti-inflammatory factor or an angiogenic factor. The uniform fine particle size capsules can directly deliver the gene encoding the hybrid polypeptide to the lesion and have benefits of reducing the given doses, and thus improving safety and efficacy and further maintaining the efficacy for a long period.